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NOTICE OF ALLOWANCE AND FEE(S) DUE

34802

7590

03/27/2008

HOLLAND & KNIGHT LLP ATTN: STEFAN V. STEIN/ IP DEPT. POST OFFICE BOX 1288 TAMPA, FL 33601-1288 EXAMINER

FERNSTROM, KURT

ART UNIT PAPER NUMBER

3711

DATE MAILED: 03/27/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711.423	09/17/2004	Patrick Murphy	106734.00052	5422

TITLE OF INVENTION: ELECTROMECHANICAL TACTILE CELL ASSEMBLY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$0	\$0	\$720	06/27/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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TAMPA, FL 336	001-1288							(Depositor's name)
				<u> </u>				(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/711,423 FITLE OF INVENTION	09/17/2004 : ELECTROMECHANI	CAL TA	ACTILE CELL A	Patrick Murphy SSEMBLY			106734.00052	5422
APPLN. TYPE	SMALL ENTITY	ISS	UE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES		\$720	\$0	\$0		\$720	06/27/2008
EXAM	INER		ART UNIT	CLASS-SUBCLASS]			
FERNSTRO	OM, KURT		3711	434-114000	-			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp	' Indica ed. Use A TO BI	tion form of a Customer E PRINTED ON	(1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or a registered patent attor listed, no name will be THE PATENT (print or type data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY)	vely, le firm (having as a agent) and the nam rneys or agents. If printed. pe) atent. If an assignassignment.	memb es of up no nam	er a 2er a p to ge is 3er below, the definition of the second of the secon	ocument has been filed for
Please check the appropr	iate assignee category or	categor	ries (will not be pr	inted on the patent):	Individual 🗖 Co	orporati	on or other private gro	up entity 🗖 Government
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	tus (from status indicated s SMALL ENTITY statu			☐ b. Applicant is no lon			FITY status. See 37 CF	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) w tes Pate	rill not be accepted nt and Trademark	d from anyone other than t	he applicant; a regi	stered a	nttorney or agent; or th	e assignee or other party in
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an application. Confident submitting the completed	tiality is governed by 35 I application form to the	U.S.C. USPTO	122 and 37 CFR O. Time will vary	1.14. This collection is est	timated to take 12 r idual case. Any co	ninutes mment	to complete, including on the amount of tire	by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O.

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10/711,423	09/17/2004	Patrick Murphy	106734.00052	5422	
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HOLLAND & K	NIGHT LLP	FERNSTRO	OM, KURT		
	V. STEIN/ IP DEPT.	ART UNIT	PAPER NUMBER		
POST OFFICE BO TAMPA, FL 3360		3711			
1AMI A, 1 L 3300	1-1200	DATE MAILED: 03/27/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 861 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 861 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/711,423	MURPHY ET AL.					
Notice of Allowability	Examiner	Art Unit					
	 Kurt Fernstrom	3711					
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject	oplication. If not included on will be mailed in due course. THIS					
2. The allowed claim(s) is/are <u>1-24</u> .							
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. 							
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached (b) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 							
 Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 							
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal 6. ☐ Interview Summar Paper No./Mail Da 7. ☒ Examiner's Amend 8. ☒ Examiner's Statem 9. ☐ Other	y (PTO-413), ate					

DETAILED ACTION

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Colitz on March 14, 2008.

The application has been amended as follows:

On page 6, paragraph 28 has been deleted and replaced with the following three paragraphs:

FIG. 4 is a perspective view of the refreshable Braille display.

FIG. 5A is a perspective view of the removable downward stop for use with the electromechanical tactile cell.

FIG. 5B is a side view of the removable downward stop for use with the electromechanical tactile cell.

Allowable Subject Matter

Claims 1-24 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or suggest a device having all of the limitations of claims 1 and 23.

Electromechanical tactile cell assemblies comprising bendable piezoelectric reeds

which bend about a fulcrum in response to application of voltage are known, as shown for example by Hong, Nakajima, Ogawa and Tetzlaff. However, there is no suggestion of providing such a device with a plurality of conductive fulcrum pins and conductive supports as recited in the claims. The utility of these features is discussed at page 6 of the specification. Because the prior art does not suggest these features, claim 1, and dependent claims 2-21 and 24, are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hong, Nakajima, Ogawa, Tetzlaff, Schmidt, Tieman, Litschel, Ida, Schleppenbach, Yang and Hayward disclose various Braille display devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kurt Fernstrom whose telephone number is (571) 272-4422. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Kim can be reached on 571 272-4463. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3711

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kurt Fernstrom/ Primary Examiner, Art Unit 3711

March 14, 2008